

## LABORATORY REPORT

**TO:** Chad Johnson  
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**SUBJECT:** Particle Identification  
**SPECIMEN:** Four Sets of Tapelifts  
**REFERENCE:** JFK Library

### INTRODUCTION

Four sets of three tapelifts were received for analysis. The tapelifts were marked as follows:

JFK121324KK	1A- 2 <sup>nd</sup> Open Ledge
	1B- 2 <sup>nd</sup> Open Ledge
	1C -2 <sup>nd</sup> Open Ledge
JFK121324KK	2A- On top of TH Fridge
	2B- On top of TH Fridge
	2C- On top of TH Fridge
JFK121324KK	3A- On Top of Freestanding Bookshelf
	3B- On Top of Freestanding Bookshelf
	3C- On Top of Freestanding Bookshelf
JFK121324KK	4A- On Top of Wall Bookshelf Top Ridge
	4B- On Top of Wall Bookshelf Top Ridge
	4C- On Top of Wall Bookshelf Top Ridge

### RESULTS

The tapelift samples contained clothing fiber, tire wear, skin flakes, paper fiber, natural minerals, plant fragments, cosmetics, hair, humus, metal flake, spores, starch, ink, glass fiber, feather barbules, glass fiber, silica phytoliths, and pet dander.

All twelve samples contained glass fiber at a level associated with health complaints. Thirteen or more glass fibers shorter than 500um per square inch are associated with health complaints. Samples taken from the top of freestanding bookshelf and the top of wall bookshelf top ridge had elevated levels of glass fibers longer than 500um. 3 or more glass fibers longer than 500um per square inch are associated with health complaints.

The majority of the glass fibers in these samples are consistent with fibers found in acoustic ceiling tile.

Sample	Location	<500um Glass Fiber	>500um Glass Fiber
JFK121324KK 1A	Open Ledge	21	2
JFK121324KK 1B	Open Ledge	23	1
JFK121324KK 1C	Open Ledge	33	0
JFK121324KK 2A	On Top of TH Fridge	30	2
JFK121324KK 2B	On Top of TH Fridge	34	0
JFK121324KK 2C	On Top of TH Fridge	27	1
JFK121324KK 3A	Top of Freestanding Bookshelf	28	3
JFK121324KK 3B	Top of Freestanding Bookshelf	25	2
JFK121324KK 3C	Top of Freestanding Bookshelf	29	0
JFK121324KK 4A	Top of Wall Bookshelf Top Ridge	102	9
JFK121324KK 4B	Top of Wall Bookshelf Top Ridge	80	7
JFK121324KK 4C	Top of Wall Bookshelf Top Ridge	55	3

## CONCLUSION

All twelve tapelift samples had short glass fiber counts at levels associated with health complaints. Four samples contained glass fibers, longer than 500um, at levels associated with health complaints. Thirteen or more glass fibers shorter than 500um per square inch and three or more glass fibers shorter than 500um per square inch have been associated with health complaints. The majority of the glass fibers in these samples are consistent with fibers found in acoustic ceiling tile.

Thank you for this opportunity to be of service. If I can provide any further assistance, please contact me.

Signed: Heidie Crutcher  
 Heidie Crutcher, Analyst

Signed: RC  
 E. R. Crutcher, Consultant

## CHAIN OF CUSTODY

209-24

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**CHAIN OF CUSTODY RECORD**



MLNW LOG #

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PRIORITY:  24 hour  One Week  Four Weeks  
(CIRCLE ONE)